

### Abstract

The invention relates to a plain bearing composite material with a metallic base layer, optionally with a porous support layer applied thereto and a lead-free bearing layer, forming a bearing surface for a bearing partner with a bearing surface material made from plastic with PEEK and a lubricant in the form of zinc sulfide and/or barium sulfate. The plain bearing composite material is characterised in that the bearing material comprises PEEK as matrix-forming plastic component and the lubricant is in the form of 3 - 15 wt. % zinc sulfide and/or barium sulfate and a hardening component in the form of 3 - 15 wt. % titanium dioxide and additionally 5 - 25 wt. % carbon fibers and 5 - 15 wt. % graphite particles.